Title (en)

NON-MECHANICAL PROCESS FOR THE MICRONIZATION OF DIGOXIN

Title (de)

NICHTMECHANISCHES VERFAHREN ZUR MIKRONISIERUNG VON DIGOXIN

Title (fr)

PROCÉDÉ NON MÉCANIQUE POUR LA MICRONISATION DE DIGOXINE

Publication

EP 3324942 B1 20191030 (EN)

Application

EP 16754316 A 20160721

Priority

- EP 15178009 A 20150723
- IB 2016001035 W 20160721

Abstract (en)

[origin: EP3120839A1] New non-mechanical process of micronization, capable to reduce the particle size of digoxin from ordinary level to a selected micrometer range. Micronization is obtained via a specific treatment, to be performed on a purified and concentrated digoxin solution in an organic solvent. The purified and concentrated digoxin solution is obtainable via a sequence of solvent treatments; then, after reaching the required concentration, the solution is further concentrated, obtaining the precipitation of digoxin; the reaction mixture is then added with methanol under stirring for a suitable time. The recovered precipitate consists in a digoxin with particle size comprised between 20 and 30 micrometers (for at least 90% by weight of the obtained particles), and exempt from degradation products.

IPC 8 full level

A61K 9/14 (2006.01); **A61K 9/16** (2006.01); **A61K 9/20** (2006.01); **A61K 31/575** (2006.01); **A61K 31/7048** (2006.01)

CPC (source: EP KR US)

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EP 3120839 A1 20170125; **EP 3120839 B1 20181219**; AU 2016296162 A1 20180201; AU 2016296162 B2 20210318; BR 112018001204 A2 20180911; CN 108024963 A 20180511; EP 3324942 A1 20180530; EP 3324942 B1 20191030; ES 2716681 T3 20190614; ES 2765675 T3 20200610; HU E042420 T2 20190729; HU E048065 T2 20200528; JP 2018521073 A 20180802; JP 6814522 B2 20210120; KR 20180032587 A 20180330; MX 2018001010 A 20180517; MX 365906 B 20190618; PL 3120839 T3 20190830; PL 3324942 T3 20200518; PT 3120839 T 20190325; PT 3324942 T 20200117; US 2018207099 A1 20180726; WO 2017013485 A1 20170126

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